

In the Claims:

Claims 1 - 4. (cancelled)

Claim 5. (currently amended) The power system of ~~Claim 1~~, claim 8 wherein said ~~the~~ capacitor has a capacitance of about 1,000  $\mu\text{F}$  to about 7,700  $\mu\text{F}$ .

Claim 6. (currently amended) The power system of ~~Claim 1~~, claim 8 wherein said ~~the~~ capacitor exhibit a voltage about 5 times to about 10 times a voltage of said bus.

Claim 7. (currently amended) The power system of ~~Claim 1~~, claim 8 wherein said ~~the~~ capacitor further has a voltage of greater than or equal to about 250 volts.

Claim 8. (currently amended) The power system of ~~Claim 1~~, claim 21 wherein said ~~the~~ bridging power source comprises a capacitor.

Claim 9. (currently amended) The power system of ~~Claim 1~~, claim 24 wherein said ~~the~~ bridging power source comprises the electrolysis cell.

Claims 10 – 20. cancelled

Claim 21. (new) A system for providing back-up power to a load powered by a primary power source, the system comprising:

- a fuel cell arrangement for generating back-up power for the load;
- a bridging power source for generating bridge power for the load; and
- a controller in operable communication with the fuel cell arrangement and the bridging power source, the controller adapted to initiate application of the bridge power to the load upon detecting a deterioration of power from the primary power source, the controller further adapted to initiate application of the back-up power to the load upon detecting a power capability of the back-up power to power the load.



Claim 22. (new) The system of claim 21 further comprising:

a converter coupled between the primary power source and the load, the converter for converting power from the primary power source to power anticipated by the load.

Claim 23. (new) The system of claim 21 wherein the fuel cell arrangement comprises a regenerative fuel cell arrangement.

Claim 24. (new) The system of claim 23 wherein the regenerative fuel cell arrangement comprises:

a fuel cell for generating the back-up power;

a hydrogen storage device in communication with the fuel cell for providing hydrogen thereto; and

an electrolysis cell in communication with the hydrogen storage device, the electrolysis cell for generating hydrogen to be stored at the hydrogen storage device.

Claim 25. (new) The system of claim 24 wherein the electrolysis cell is in communication with the primary power source to power the electrolysis cell.

Claim 26. (new) The system of claim 22 wherein the converter comprises a rectifier to convert AC power from the primary power source to DC power for the load.

Claim 27. (new) The system of claim 21 wherein the bridging power source comprises a battery.

Claim 28. (new) A method for providing back-up power to a load powered by a primary power source, the method comprising:

generating back-up power for the load from a fuel cell arrangement;

generating bridge power for the load from a bridging power source;



initiating application of the bridge power to the load upon detecting a deterioration of power from the primary power source; and

initiating application of the back-up power to the load upon detecting a power capability of the back-up power to power the load.

Claim 29. (new) The method of claim 28 further comprising:

converting power from the primary power source to power anticipated by the load.

Claim 30. (new) The method of claim 29 wherein the converting power comprises converting AC power from the primary power source to DC power for the load.